

ABSTRACT

A gas-filled spring (1) operates using gas (13, 14) and may be intended for a motor cycle. The gas-filled spring comprises a cylinder (2) and a piston (4), said cylinder comprising a compression chamber and a return chamber (8, 9). An arrangement maintains the necessary quantities of gas and gas pressure settings or differential pressures in the chambers despite any gas leakage and temperature variations occurring. Arranged between the chambers is a passage (12), which is open only in a predetermined position of the cylinder and the piston relative to one another. In the open position gas transfer between the chambers and/or pressure equalization in or differential pressure adjustment of the gas pressures in the chambers are permitted. The invention also relates to a valve for counteracting rapid changes in leakage and temperature. The desired spring characteristic of the gas-filled spring can in this way be maintained despite leakage and temperature variations.